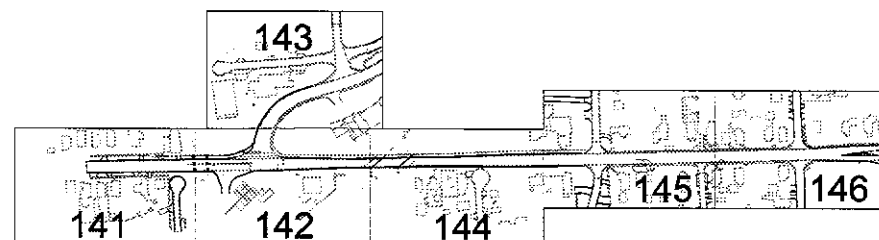


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7010	000-00000-00-00	JEFFERSON	270	139
PROJECT NO.	00-00-000-00	PROJECT	00-00-000-00	



LIGHTING SHEET KEY

SUMMARY OF LIGHTING QUANTITIES					
IDOT PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY WEST OF 285+00	QUANTITY EAST OF 285+00 INCLUDING SPARES	TOTAL QUANTITY
B0400105	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1	0	1
81012600	CONDUIT IN TRENCH, 2-IN DIA., PVC	FOOT	2527	0	2527
81027060	POLYETHYLENE DUCT, BORED AND PULLED, 2-IN	FOOT	335	366	701
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2-IN DIA., PVC	FOOT	1280	0	1280
81200200	CONDUIT EMBEDDED IN STRUCTURE, 3/4-IN DIA., PVC	FOOT	228	0	228
81100600	CONDUIT ATTACHED TO STRUCTURE, 2-IN DIA., GALVANIZED STEEL	FOOT	180	0	180
81304000	JUNCTION BOX, EMBEDDED IN STRUCTURE, 8 X 8 X 6, CAST IRON	EACH	14	0	14
81306100	JUNCTION BOX, POLYMER CONCRETE, 13 X 24 X 18, SPECIAL	EACH	5	0	5
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2395	0	2395
81702100	ELECTRIC CABLE IN CONDUIT, 600V, 1/C, NO. 12 (XLP/USE)	FOOT	276	0	276
81702101	ELECTRIC CABLE IN CONDUIT, 600V, 1/C, NO. 10 (XLP/USE)	FOOT	552	0	552
81702120	ELECTRIC CABLE IN CONDUIT, 600V, 1/C, NO. 8 (XLP/USE)	FOOT	4612	387	4999
81702130	ELECTRIC CABLE IN CONDUIT, 600V, 1/C, NO. 6 (XLP/USE)	FOOT	8772	744	9516
81702130	ELECTRIC CABLE IN CONDUIT, 600V, 1/C, NO. 2 (XLP/USE)	FOOT	2272	0	2272
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1	0	1
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (TYPE A)	EACH	26	4	30
NONE	LUMINAIRE, WALL MOUNTED, SPECIAL (TYPE B)	EACH	8	0	8
83002400	LIGHT POLE, ALUMINUM, 40 FT. M.H., 10-FOOT DAVIT ARM	EACH	25	4	29
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	104	26	132
NONE	LIGHTING EQUIPMENT SPARES, MATERIALS ONLY, SPECIAL	LUMP SUM	1	1	1

LIGHTING SHEETS DRAWING INDEX

139	LIGHTING SHEET KEY, QUANTITIES, & DRAWING INDEX
140	LIGHTING GENERAL NOTES AND PLAN SYMBOLS
141	LIGHTING PLAN - 14TH STREET, 265+00 TO 268+45
142	LIGHTING PLAN - 14TH STREET, 268+45 TO 274+45
143	LIGHTING PLAN - TILTON ROAD, 1579+35 TO 1583+95
144	LIGHTING PLAN - 14TH STREET, 274+45 TO 280+45
145	LIGHTING PLAN - 14TH STREET, 280+45 TO 286+45
146	LIGHTING PLAN - 14TH STREET, 286+45 TO 290+20
147	LIGHTING INSTALLATION DETAILS
148	LIGHTING CONTROLLER DETAILS
149	LIGHTING CONTROLLER INSTALLATION DETAILS
150	LIGHTING CIRCUIT DIAGRAM
151	POLE BASE WIRING DETAILS
152	LIGHT POLE FOUNDATION & POLE SCHEDULE
153	JUNCTION BOX INSTALLATION AND DETAILS

THOMAS H. BURTNESS, P.E.
ILLINOIS LICENSED PROFESSIONAL
ENGINEER NO. 40846
EXPIRES: NOVEMBER 30, 2005

LIGHTING SHEET KEY, QUANTITIES, & DRAWING INDEX

Revisions	Surveyed	Design	Drawn	Checked	Approved	Date
1. BY: [blank] DATE: [blank]	---	---	---	---	---	---
2. BY: [blank] DATE: [blank]	---	---	---	---	---	---
3. BY: [blank] DATE: [blank]	---	---	---	---	---	---
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6. BY: [blank] DATE: [blank]	---	---	---	---	---	---
7. BY: [blank] DATE: [blank]	---	---	---	---	---	---

FAU ROUTE 7010 (14TH STREET)
TILTON, ILLINOIS

DA Doty & Associates, Engineers, Inc.
Champaign & Peoria, Illinois
Louisville, Kentucky

ROUTE NO.	SECTION	DRAWN	DATE	SHEET	NO.
7010	DO-00025-00-BR	VERM LCO	270	140	
DESIGNED BY	DATE	PROJECT	DATE	DATE	DATE

LIGHTING GENERAL NOTES

1. STANDARD SPECIFICATIONS.

WHEREVER THE TERM "STANDARD SPECIFICATIONS" IS USED, IT SHALL MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2002 EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

2. DIAGRAMMATIC INTENT OF DRAWINGS.

CONDUIT LOCATIONS SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY BE VARIED TO SUIT FIELD CONDITIONS. CONTRACTOR SHALL SUBMIT ALL SUCH REQUESTS TO THE ENGINEER FOR REVIEW.

3. CONDUITS.

CONDUITS SHOWN UNDER NEW CONSTRUCTION SHALL BE TRENCHED AND BACKFILLED PRIOR TO PLACING PAVEMENT. COORDINATE ACTIVITIES WITH OTHER CONTRACTORS.

4. EQUIPMENT ALIGNMENT.

ALL POLES SHALL BE INSTALLED IN A STRAIGHT LINE WITH THE SAME SETBACK ON BOTH SIDES OF EACH STREET FOR THE ENTIRE LENGTH OF THE STREET. CONFIRM POLE PLACEMENTS WITH ENGINEER IN FIELD PRIOR TO INSTALLING ANY FOUNDATIONS. ALL LUMINAIRES SHALL BE IN ALIGNMENT FOR THE FULL LENGTH OF THE STREET $\pm 4"$.

5. LAYOUT OF FOUNDATIONS.

LIGHTING CONTRACTOR SHALL COORDINATE PRECISE HORIZONTAL LOCATIONS $\pm 2"$ AND PRECISE ELEVATIONS $\pm 1"$ WITH STAKING/LAYOUT SUBCONTRACTOR.

6. LIGHTING REMOVALS.

EXISTING LIGHTING EQUIPMENT WEST OF 289+15 IS OWNED BY ILLINOIS POWER COMPANY AND WILL BE REMOVED BY ILLINOIS POWER COMPANY WITHOUT CONTRACTOR INVOLVEMENT.

7. POWER COMPANY COORDINATION.

LIGHTING CONTRACTOR SHALL COORDINATE WITH ILLINOIS POWER COMPANY (IPC) REGARDING REMOVAL OF EXISTING IPC EQUIPMENT AND INSTALLATION OF NEW ELECTRICAL SERVICE.

8. PARAPET CONDUITS.

CONDUITS INSTALLED IN THE PARAPET WALL SHALL HAVE DEFLECTION FITTINGS INSTALLED AT EACH SHEAR JOINT IN THE WALL. SHEAR JOINTS OCCUR APPROXIMATELY EVERY 20 FEET. COORDINATE WITH CONCRETE CONTRACTOR DURING CONSTRUCTION TO DETERMINE FINAL LOCATIONS OF THE SHEAR JOINTS. DEFLECTION FITTING SHALL BE OZ GENIEY TYPE DX OR EQUAL. DEFLECTION FITTING SHALL BE INCIDENTAL TO CONDUIT EMBEDDED IN STRUCTURE PAY ITEM.

9. PARAPET POLE FOUNDATIONS.

FINAL LOCATIONS OF POLE FOUNDATIONS IN THE PARAPET WALL SHALL BE DETERMINED DURING CONSTRUCTION BY THE WALL CONTRACTOR. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY BE ADJUSTED \pm OR $-$ 2-1/2 FEET. COORDINATE WITH WALL CONTRACTOR TO PROVIDE POLE SPACINGS AS CLOSE AS PRACTICAL TO THE NOMINAL SPACINGS INDICATED ON THE PLANS.

LIGHTING PLAN SYMBOLS

FT101

FT208

X

281+77

JB

JB

X

--- OME ---

--- CATV ---

H

H

H

X

X

RMC

RNC (PVC)

POLE MOUNTED ROADWAY LUMINAIRE. SEE SHEET 150 FOR POLE DESIGNATOR KEY.

WALL MOUNTED LUMINAIRE. SEE SHEET 150 FOR POLE DESIGNATOR KEY.

EXISTING STREETLIGHT REMAINS.

LOCATION STATION, APPROXIMATE LOCATION OF LIGHT ON ROADWAY BASELINE. FINAL LOCATIONS OF ALL LIGHTS SHALL BE REVIEWED BY ENGINEER BEFORE INSTALLATION.

CONDUIT EMBEDDED IN STRUCTURE.

CONDUIT IN TRENCH.

CONDUIT BORED AND PULLED.

CONDUIT ATTACHED TO STRUCTURE.

JUNCTION BOX, POLYMER CONCRETE, IN GROUND.

JUNCTION BOX, CAST IRON, EMBEDDED IN STRUCTURE.

LIGHTING CONTROLLER.

OVERHEAD ELECTRIC POWER LINES

OVERHEAD CABLE TV LINES

PEDESTRIAN SIGNAL

TRAFFIC SIGNAL

PEDESTRIAN AND TRAFFIC SIGNAL ON POLE

EXISTING POWER POLE

NEW POWER POLE

RIGID METALLIC CONDUIT, GALVANIZED STEEL, ACCORDING TO STANDARD SPECIFICATIONS 1088.01 (a) (1).

RIGID NON-METALLIC CONDUIT, PVC, ACCORDING TO STANDARD SPECIFICATIONS 1088.01 (b).

LIGHTING GENERAL NOTES AND PLAN SYMBOLS

Revisions	Surveyed	Designed	Drawn	Checked	Approved
1	---	---	---	---	---
2	---	---	---	---	---
3	---	---	---	---	---
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FAU ROUTE 7010 (14TH STREET)
TILTON, ILLINOIS

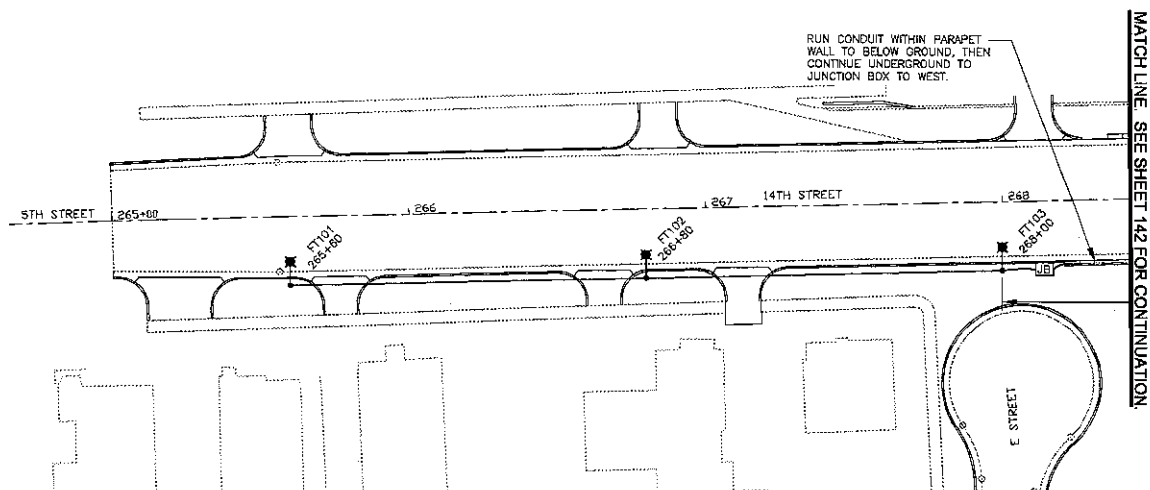


Daily & Associates, Engineers, Inc.
Champaign & Peoria, Illinois
Louisville, Kentucky

Job No. 1320.16

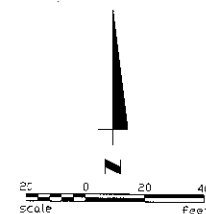
Date: 5-11-04

PROJECT NO.	SHEET NO.	DATE	SCALE	SHEET NO.
FAU 7010	00-0000-00-00	7/10/10	270	141
TITLE	NO.	NO.	NO.	NO.



NOTES:

1. CONDUIT EMBEDDED IN PARAPET WALL SHALL HAVE DEFLECTION FITTING INSTALLED AT EACH SHEAR JOINT CROSSING. SEE GENERAL NOTE 8.
2. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT POLE FOUNDATION TYPE AT EACH LOCATION.



LIGHTING PLAN - 14TH STREET 265+00 TO 268+45

Revisions	Surveyed	Design	Drawn	Checked	Approved
1					
2					
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7					

FAU ROUTE 7010 (14TH STREET)
TILTON, ILLINOIS



Daily & Associates, Engineers, Inc.
Champaign & Peoria, Illinois
Louisville, Kentucky

Job No: 1330.15

Date: 5-11-04

MATCH LINE. SEE SHEET 143 FOR CONTINUATION.

NOTES:

1. CONDUIT EMBEDDED IN PARAPET WALL SHALL HAVE DEFLECTION FITTING INSTALLED AT EACH SHEAR JOINT CROSSING. SEE GENERAL NOTE 8.
2. PROVIDE CAST IRON JUNCTION BOX EMBEDDED IN PARAPET WALL AT EACH PARAPET MOUNTED LIGHT POLE LOCATION, EXCEPT AS NOTED. JUNCTION BOX SHALL OPEN ON ROADWAY SIDE OF WALL.
3. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT POLE FOUNDATION TYPE AT EACH LOCATION.
4. FOUNDATIONS FOR TL101 THROUGH TL106 SHALL BE INSTALLED AT BACK OF SIDEWALK.

TRAFFIC SIGNAL EQUIPMENT SHALL BE MOUNTED ON LIGHT POLE AT FT106. SEE TRAFFIC SHEETS FOR ADDITIONAL DETAILS. ORIENT ANCHOR BOLTS IN LIGHT POLE FOUNDATION TO ALIGN LIGHT POLE AS SHOWN.

DO NOT INSTALL JUNCTION BOX IN THIS LOCATION. RUN CONDUIT DIRECTLY TO LIGHT POLE BASE. ORIENT ANCHOR BOLTS IN PARAPET WALL TO ALIGN LIGHT POLE AS SHOWN.

TYPE A LIGHT FIXTURE ON TRAFFIC SIGNAL POLE AT FT201 ONLY. DO NOT INSTALL JUNCTION BOX AT THIS LOCATION. RUN CONDUIT DIRECTLY TO TRAFFIC SIGNAL POLE BASE.

MATCH LINE. SEE SHEET 144 FOR CONTINUATION.

MATCH LINE. SEE SHEET 141 FOR CONTINUATION.

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 scale feet

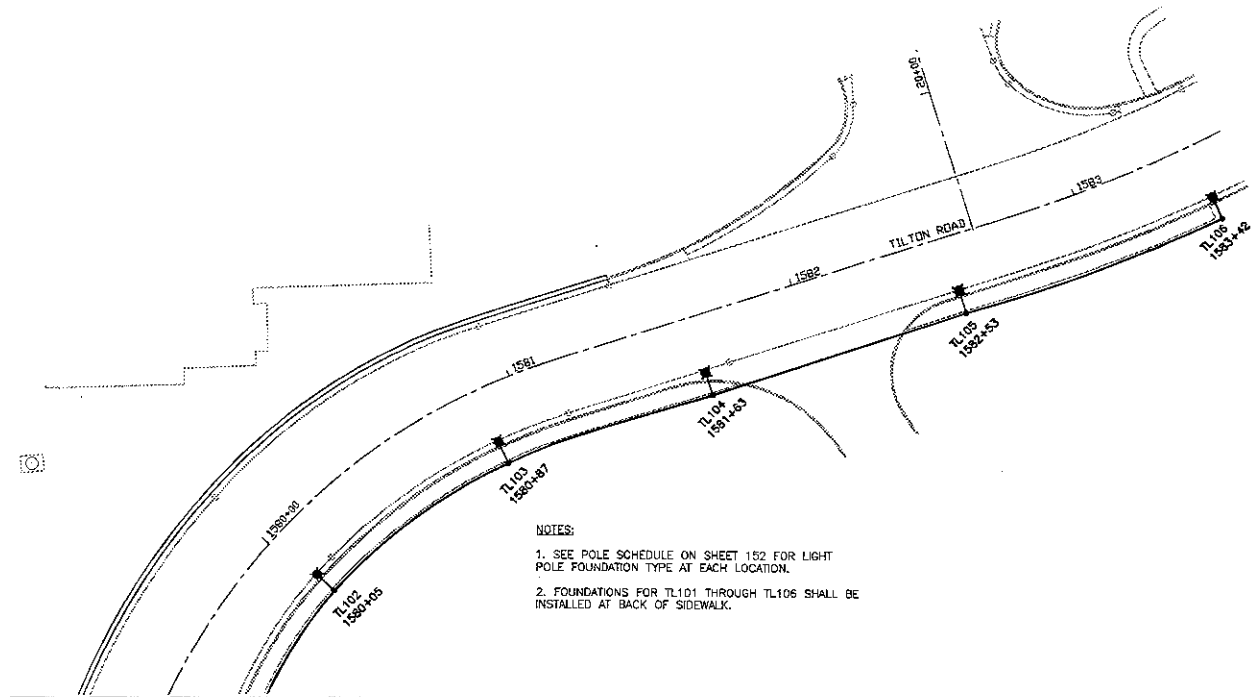
LIGHTING PLAN - 14TH STREET 268+45 TO 274+45

Revisions	Surveyed	FAU ROUTE 7010 (14TH STREET) TILTON, ILLINOIS
1. 02/11/04	Designed: OAR	
2. 03/11/04	Drawn: RPS	
3. 04/11/04	Checked: THB	
4. 05/11/04	Approved: TLO	
Job No: 1330-06	Date: 5-11-04	

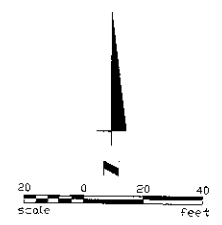
DA Daily & Associates, Engineers, Inc.
 Champaign & Peoria, Illinois
 Louisville, Kentucky


L5

DATE	REVISION	BY	CHKD	APPD
05/10	05-00028-00-BP	VERMILION	070	142
05/10	05-00028-00-BP	VERMILION	070	142



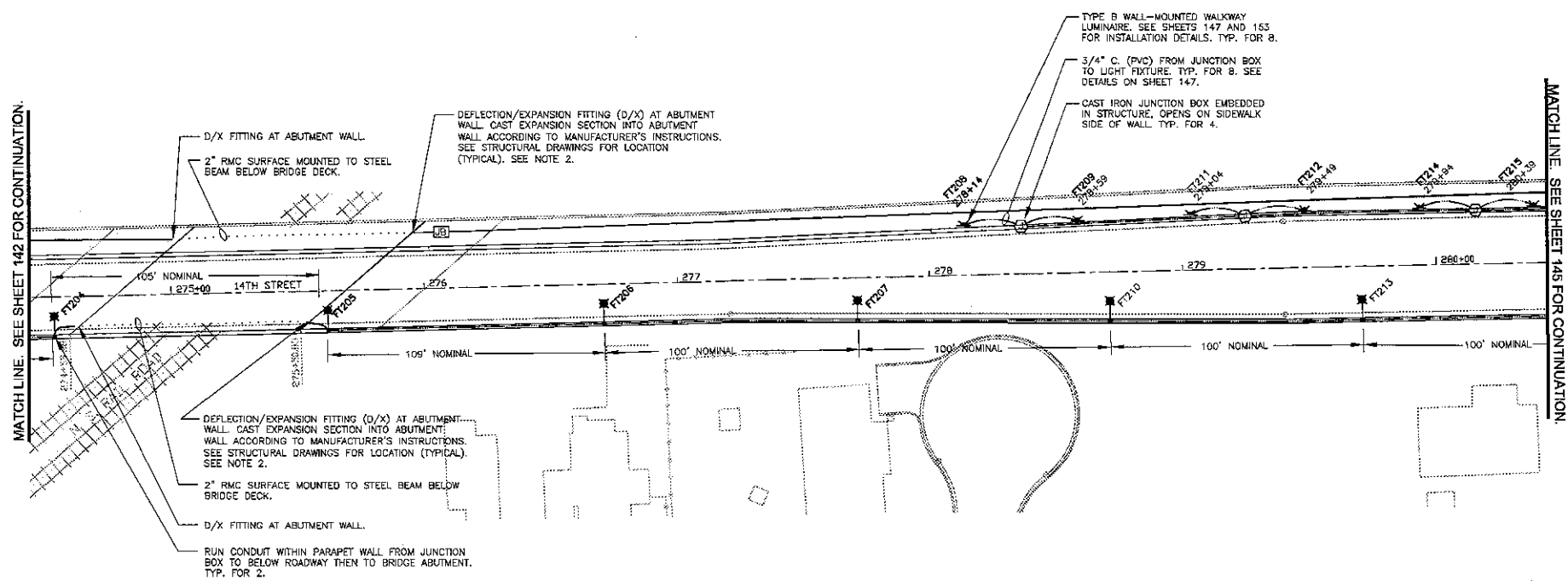
- NOTES:
1. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT POLE FOUNDATION TYPE AT EACH LOCATION.
 2. FOUNDATIONS FOR TL101 THROUGH TL106 SHALL BE INSTALLED AT BACK OF SIDEWALK.



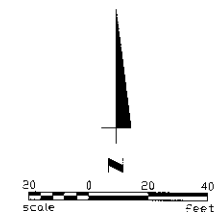
LIGHTING PLAN - TILTON ROAD 1579+35 TO 1583+95			
Revisions	Surveyed: ---	FAU ROUTE 7010 (14TH STREET)	
NO. DATE	Designed: DMR	TILTON, ILLINOIS	
1	Drawn: RPS	 Daily & Associates, Engineers, Inc. Champaign & Peoria, Illinois Louisville, Kentucky	
2	Checked: THB		
3	Approved: TLO		
4			
Job No: 1330.16	Date: 5-11-04		

L6

ROUTE NO.	SECTION	COUNTY	TOWNSHIP	SHEET NO.
FAU	02-00022-00-B	VERMILION	270	144
FILE NO.	02-00022-00-B	VERMILION	270	144
FILE NO.	02-00022-00-B	VERMILION	270	144

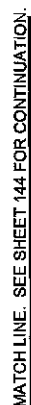


- NOTES:**
1. CONDUIT EMBEDDED IN PARAPET WALL SHALL HAVE DEFLECTION FITTING INSTALLED AT EACH SHEAR JOINT CROSSING. SEE GENERAL NOTE 6.
 2. D/X FITTING SHALL BE 6" GEDNEY TYPE AXDX OR EQUAL. D/X FITTING SHALL BE INCIDENTAL TO CONDUIT ATTACHED TO STRUCTURE INSTALLATION.
 3. PROVIDE CAST IRON JUNCTION BOX EMBEDDED IN PARAPET WALL AT EACH PARAPET MOUNTED LIGHT POLE LOCATION, EXCEPT AS NOTED. JUNCTION BOX SHALL OPEN ON ROADWAY SIDE OF WALL.
 4. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT POLE FOUNDATION TYPE AT EACH LOCATION.



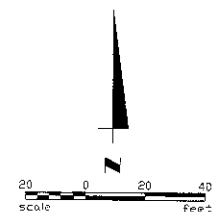
Revisions				Surveyed: ---		FAU ROUTE 7010 (14TH STREET)	
Rev.	Date	By	Check	Designed:	DAV	TILTON, ILLINOIS	
1				Drawn:	SPS		
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MATCH LINE. SEE SHEET 146 FOR CONTINUATION

1. CONDUIT EMBEDDED IN PARAPET WALL SHALL HAVE DEFLECTION FITTING INSTALLED AT EACH SHEAR JOINT CROSSING. SEE GENERAL NOTE 8.
2. PROVIDE CAST IRON JUNCTION BOX EMBEDDED IN PARAPET WALL AT EACH PARAPET MOUNTED LIGHT POLE LOCATION, EXCEPT AS NOTED. JUNCTION BOX SHALL OPEN ON ROADWAY SIDE OF WALL.
3. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT POLE FOUNDATION TYPE AT EACH LOCATION.



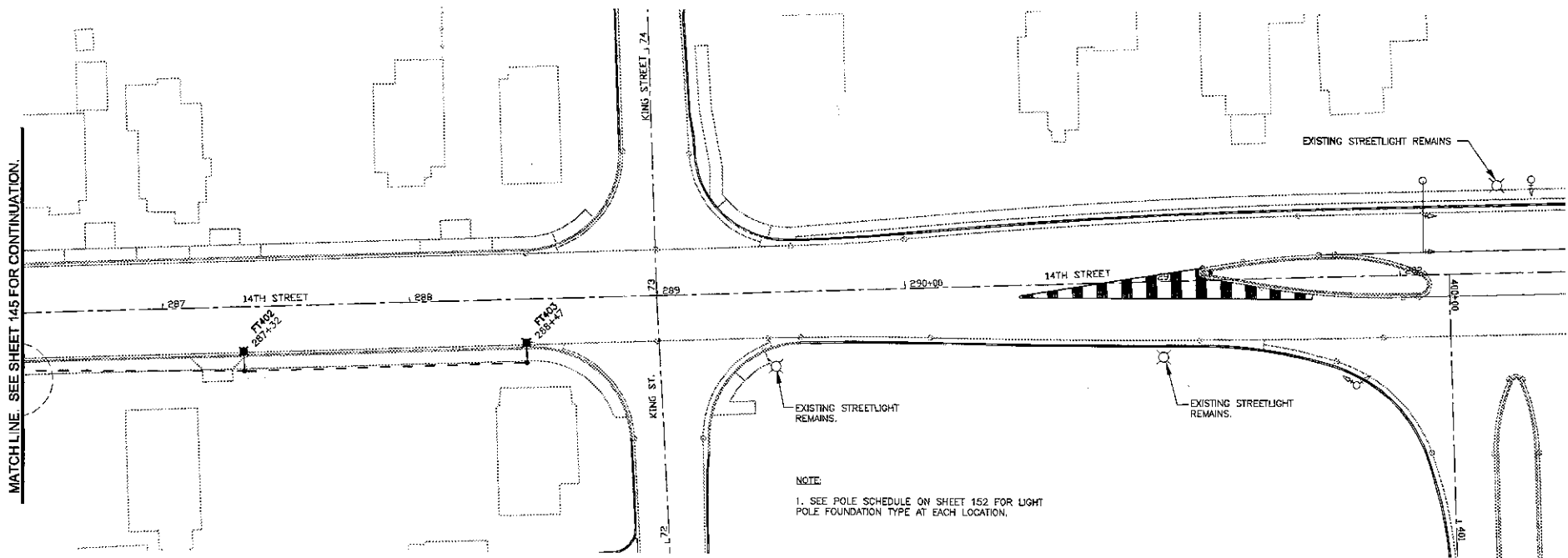
LIGHTING PLAN - 14TH STREET 280+45 TO 286+45

Revisions		Surveyed: ---	 D&A Daily & Associates, Engineers, Inc. Champaign & Peoria, Illinois Louisville, Kentucky
No.	REV.	DATE	
1		Designed: QAR	
2		Drawn: RPS	
3		Checked: TMB	
4		Approved: TJC	
5		Date: 5-11-04	
Job No.: 1330-18			

18

ROUTE NO.	SECTION	DRAWN	DATE	BY
FAJ 7010	CD-00225-20-SR	VERMILION	270	145
175	1750	1750	1750	1750

MATCHLINE. SEE SHEET 145 FOR CONTINUATION.

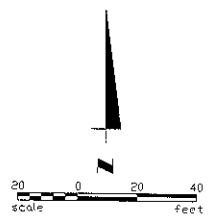


NOTE:
1. SEE POLE SCHEDULE ON SHEET 152 FOR LIGHT
POLE FOUNDATION TYPE AT EACH LOCATION.


EXISTING STREETLIGHT REMAINS

EXISTING STREETLIGHT
REMAINS.

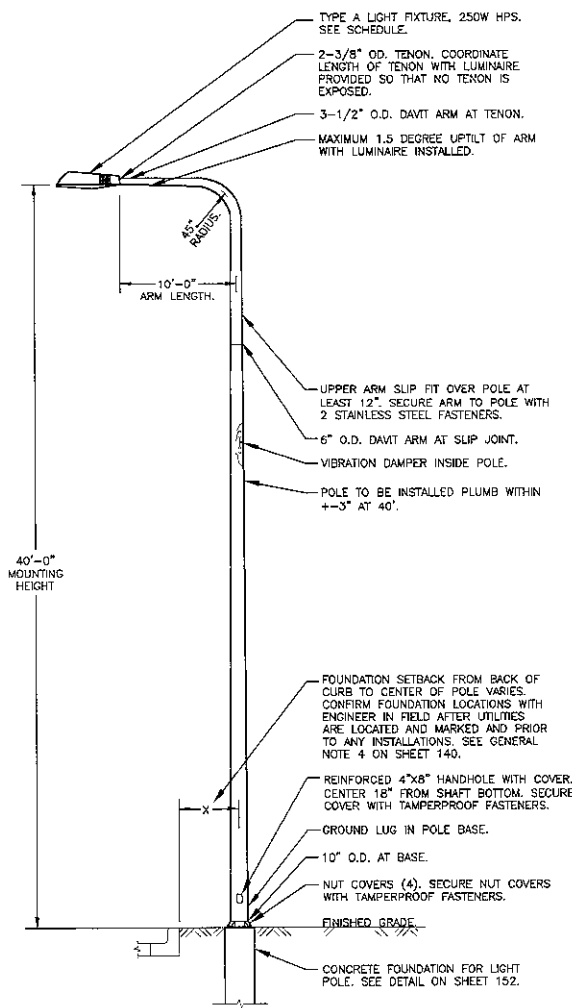
EXISTING STREETLIGHT
REMAINS.



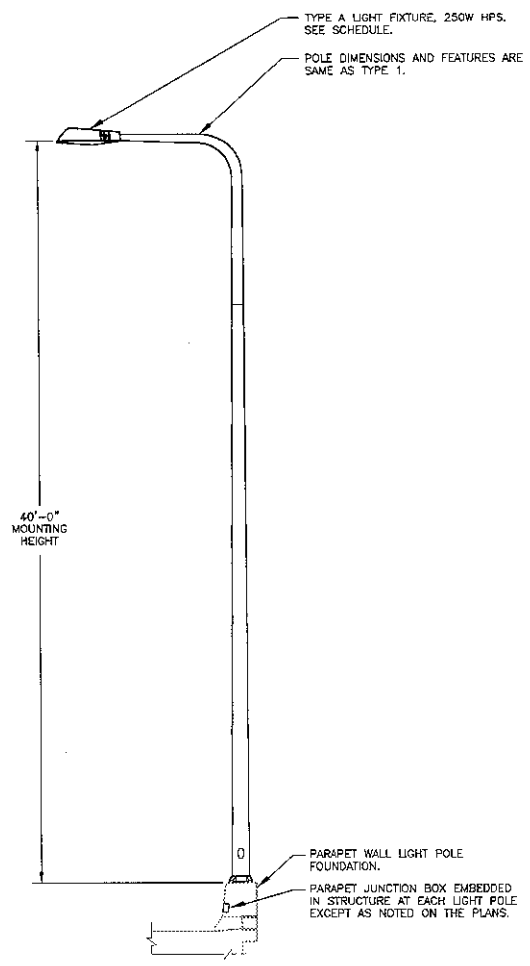
LIGHTING PLAN - 14TH STREET 286+45 TO 290+20

Revisions		Surveyed: _____	FAU ROUTE 7010 (14TH STREET) TILTON, ILLINOIS  Daily & Associates, Engineers, Inc. Champaign & Peoria, Illinois Louisville, Kentucky
1	DATE: 11/15/06	Designated: DAK	
2		Drawn: RPS	
3		Checked: T-B	
4		Approved: TLO	
Job No: 133015		Date: 5-11-06	

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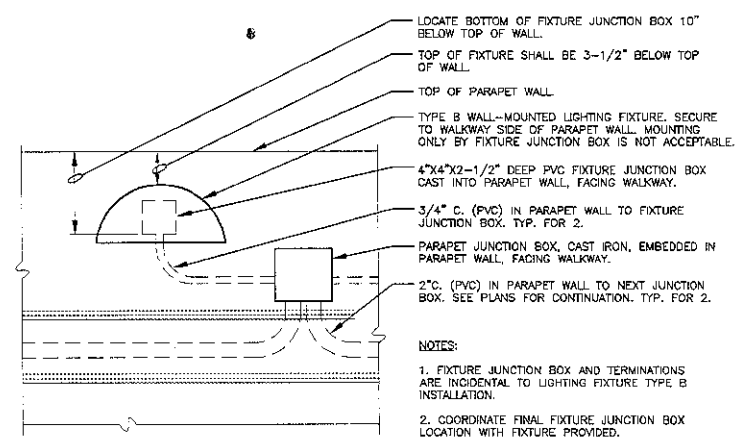


INSTALLATION TYPE 1
 NO SCALE



INSTALLATION TYPE 2
 NO SCALE

LIGHTING FIXTURE SCHEDULE									
FIXTURE TYPE	DESCRIPTION	LAMP TYPE	WATTS	IES TYPE	BALLAST TYPE	VOLTS	MOUNTING TYPE	HEIGHT	LUMINAIRE MFR. CAT. NO. (SEE SPECS)
A	ROADWAY FULL CUTOFF FLAT LENS	HPS	250	MEDIUM CUTOFF TYPE III	HPF	MULTI-TAP CONNECT AT 240V	POLE	40 FT.	GE M-400A POWR/DOOR LITHONIA CHMD AEL ROADWAY SERIES 325
B	WALL MOUNTED FULL CUTOFF	HPS	50	SHORT CUTOFF TYPE II	HPF	MULTI-TAP CONNECT AT 240V	WALL	BOTTOM AT 12 1/2" BELOW TOP OF WALL	GARDCO 105 QUARTER SPHERE SCORCE LUMARK IP IMPACT QUARTER SPHERE MCGRAW-EDISON ZOW CREDENZA



INSTALLATION TYPE 3
 NO SCALE

Revisions				Surveyed: ---		FAU ROUTE 7010 (14TH STREET) TILTON, ILLINOIS	
No.	Date	Initials	Design:	Drawn:	Checked:	Approved:	Date:
1			DAR	RPS	THB	TLO	5-11-04
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DA
 Dally & Associates, Engineers, Inc.
 Champaign & Peoria, Illinois
 Louisville, Kentucky